Feature Activity 06

A. Listing Networks

```
Docker defines networks, which groups containers for interoperability and DNS functions.
```

To list networks, run `docker network ls`:

```
C:\Users\Rafael\Desktop\Academics\CoE197\ME8_Containerization_and_Docker\5-volumes>docker network ls
NETWORK ID
             NAME
                       DRIVER
                                  SCOPE
              bridge
Fd66bd92e3b2
                                  local
                        bridge
5cfa330f209
              host
                        host
                                  local
5fe60417af28
                        null
                                  local
              none
```

B. The default 'bridge' network

```
All new containers, if given no other configuration, will be automatically added the `bridge` network. This network acts as a pass through to your host's ethernet, so your Docker containers can access the internet.
```

```
We can inspect the `bridge` network by running `docker network inspect bridge`:
```

You can see the container was added to the default network. Now let's add another `ping` container, and set it to ping our first.

C:\Users\Rafael\Desktop\Academics\CoE197\WE8_Containerization_and_Docker\6-networking>docker run --rm -d -e PING_TARGET=172.17.0.2 --name pinger pugay21/ping:1.0

Inspecting the logs for `pinger` we can see it was able to successfully ping the other container in the network. While IP address does work, it's very cumbersome and prone to error if addresses change. It would be better to use a hostname, specifically the container name `dummy`, to always resolve to the correct container.

Running `ping` with the `dummy` as the target: